

first and second gain levels when receiving a signal [and characterised in that,];

when a signal frequency is selected in response to the user selection of a television channel to be generated by the receiver, the broadcast data receiver tunes to the required frequency, receives the signal and the broadcast data receiver then adjusts the first and/or second gain levels to determine the appropriate gain levels which provide the optimum signal for that signal frequency with regard to predefined parameters.

2 (Amended) A system according to claim 1 [characterised in that the optimisation] wherein the optimization and setting of the gain control levels is performed for each new signal frequency selected when a new channel is selected by the broadcast data receiver user.

3. (Amended) A system according to claim 1 [characterised in that the optimisation] wherein the optimization process is repeated at regular intervals.

4. (Amended) A system according to claim 1 [characterised in that] wherein the setting of the [AGC] amplitude gain control levels is checked continuously.

5. (Amended) A system according to claim 1 [characterised in that the] wherein said broadcast data receiver further includes,

storage means in which previously selected settings for particular signal frequencies are stored and which are referred to when that signal is again selected to be received, with the receiver setting the receiving parameters in accordance with those stored in the storage means and then starts from those settings when subsequently checking to ascertain whether those settings are providing the optimum signal reception at that instant.

6. (Amended) A system according to claim 5 [characterised in that] wherein at the time of factory setting of [the] said broadcast data receiver standard settings may be input into [the] said storage means to provide a starting point for each signal frequency from which [the] said broadcast data receiver tuner commences when the signal frequency is first chosen in use.

7. (Amended) A system according to claim 1 [characterised in that] wherein upon [to] the first selection of any signal frequency a series of common default settings are referred to by [the] said broadcast data receiver.

8. (Amended) A system according to claim 1 [characterised in that] wherein the signal quality is determined with reference to the demodulator error correcting circuitry in [the] said broadcast data receiver.

9. (Amended) A system according to claim 1 [characterised in that] wherein the signal quality and [optimisation] optimization process is determined with respect to the [Bit Error Rate] bit error rate for the signal frequency.

10. (Amended) A system according to claim 9 [characterised in that the] wherein said bit error rate is adjusted by altering the first and second values of the amplitude gain values and hence arriving at the [AGC] amplitude gain control value or values which provide the optimal signal quality at a particular signal frequency.

11. (Amended) A broadcast data receiver, said receiver comprising [provided];
means to receive any or any combination of analogue and /or digital data signals[, said

signals] transmitted at different frequencies within a frequency range[, said signals] and carrying data which when received and processed by the receiver allows the generation of audio and video for television [programmes] programs which are displayed to a user via a television; [, said broadcast receiver including]

a³
a tuner; [and]

first and second [AGC's] amplitude gain controls which allow the adjustment of first and second gain levels when receiving a signal; and [characterised in that]

when a signal frequency is selected in response to the user selection of a television channel to be generated by the receiver, the receiver tunes to the required frequency, receives the signal and the receiver then checks and, if necessary, adjusts the first and/or second gain levels to determine those appropriate gain levels which provide the optimum signal for that signal frequency at that instant.

12. (Amended) A receiver according to claim 11 [characterised in that] wherein the signal quality for each [AGC] amplitude gain control level is measured by demodulator error correcting circuitry in [the] said broadcast data receiver.

13. (Amended) A receiver according to claim 11 [characterised in that] wherein the value which is measured is subject to control alterations to [the] said broadcast data receiver.

14. (Amended) A receiver according to claim 11 [characterised in that] wherein there are two or more amplitude gain control loop levels and the alterations made to each are based upon that which provides the lowest received signal bit error rate [(BER)] for each.

15. (Amended) A receiver according to claim 11 [characterised in that] wherein said broadcast data receiver implements a two dimensional search in the amplitude gain control range to [minimise the BER] minimize the bit error rate.

16. (Amended) A method for receiving a data carrier signal selected from one of a range of signal frequencies, said method comprising the steps of: [said data, once received, processed and used]

processing received data for use to generate video and audio for a television or radio [programme] program by a broadcast data receiver connected to a display screen and speakers[, said method comprising];

receiving a user selection of a particular television channel via the broadcast data receiver[,];

identifying the signal frequency for that channel; [and]

tuning the receiver [utilising] utilizing a tuner to receive the frequency signal[, and characterised in that];

upon signal frequency reception, adjusting at least first and second amplitude gain control levels and assessing the change in signal quality, said quality determined with respect to predefined parameters[,]; and[,]

upon identifying the optimum signal, maintaining those amplitude gain control levels.

17. (Amended) A method according to claim 16 [characterised in that] wherein upon selecting signal frequency reference is made to a storage means in which previous amplitude gain control levels for that signal frequency are held and which are [utilised] utilized as the first settings for the signal frequency reception.

18. (Amended) A method according to claim 16 [characterised in that the] wherein said method is repeated for every new frequency signal selection.

19. (Amended) A method according to claim 16 [characterised in that the] wherein said method is repeated continuously while the broadcast data receiver is operational.

REMARKS

Attached is the clean version of the claims and new paragraphs as required in Section 1.121(4) (ii).

The application should now be in condition for examination, which is respectfully requested.

Respectfully Submitted

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